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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,077	01/17/2002	Charles Rogers	11738.00052	2977
22908	7590 02/09/2005		EXAMINER	
BANNER & WITCOFF, LTD.			SIRMONS, KEVIN C	
TEN SOUTH	WACKER DRIVE			
SUITE 3000			ART UNIT	PAPER NUMBER
CHICAGO,	IL 60606		3763	•
			DATE MAIL ED: 02/09/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/052,077	ROGERS ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Kevin C. Sirmons	3763			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 16 November 2004.					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL. 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•				
4) ⊠ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-33 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)		-			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	5. The second second	atent Application (PTO-152)			

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DETAILED ACTION

Specification (2nd Time)

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: a flow limiter; a first and second passive flow rate control elements.

The disclosure is objected to because of the following informalities: It is the Examiner's position that Applicant has evoked sixth paragraph, means-plus-function language to define Applicant's invention. Therefore the Examiner requires the Applicant to amend the specification pursuant to 37 CFR 1.75(d) and MPEP 608.01(o) to explicitly state, with reference to the terms and phrases of the claim element, what structure, materials, and acts perform the function recited in the claim element. Please note that the MPEP clearly states, "Even if the disclosure implicitly sets forth the structure, materials, or acts corresponding to the means-(or step-) plus-function claim element in compliance with 35 U.S.C. 112, first and second paragraphs, the PTO may still require the applicant to amend the specification pursuant to 37 CFR 1.75(d) and MPEP 608.01(o)...". (Also see MPEP 2181 (Rev. 1, Feb.2000)); See claim 19, 26 and any new claims with the means language.

Appropriate correction is required.

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Drawings (2nd time)

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: a first (reference numeral?) and second (reference numeral?) passive flow rate control elements. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Santangelo et al U.S. Pat. No. 4,604,089 in view of DeCant, Jr. et al U.S. Pat. No. 4,447,224.

Santangelo discloses a flow control device comprising: a reservoir (14) and a valve (56); a bolus delivery component comprising an inlet valve (68) an accumulator (64) and an outlet valve (62) in parallel communication with the valve. Santangelo does not disclose a control module or a bi-stable valves, solenoid valves, and piezoelectric valves. DeCant discloses a control module (68) for generating a control signal to the valve to thereby cause the valve to assume one of the two flow states and bi-stable valves, solenoid valves, and piezoelectric valves (42). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Santangelo to include a control module for controlling the bi-stable, solenoid and piezoelectric valves as taught by DeCant for automatically open and close the valves at appropriate times (col. 6, lines 1-35). As to claim 2, (60); as to claim 3, (see above rejection); as to claims 4, (see above rejections); as to claim 5, (Applicant has provided not structure for a bi-stable valve, therefore, valve 42 is regarded as a by stable valve.) As to claims 6-12, (see above rejections and it is the examiner position that the control module of DeCant is fully capable of providing signals to the inlet and outlet valves.) As to claims 14-33, (see above rejections).

Note: Micro-machined bi-stable valves have very little structure. Additionally, after reviewing applicant entire specifications and related patents and articles, the

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examiner has concluded that Micro-machined bi-stable valves have any art-recognized structure. Therefore, the valve could be regarded as any valve that opens and closes.

Response to Amendment

The examiner suggests placing the means plus function language into to the specification corresponding to the proper reference numerals.

Response to Arguments

Applicant's arguments filed 11/16/04 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the **structure that defines** micro-machined bi-stable valves) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response to applicant's arguments, the recitation Santangelo does not control the flow of fluid to the delivery site has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead,

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the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Finally, the bolus delivery component is clearly in parallel communication with the valve (fig. 1). Additionally, DeCant was not introduced to disclose a "bolus delivery component in parallel communication with the valve" as recited in claim 1, thus it is unclear why the combination is being discussed to overcome the parallel deficiency.

As to the rest of applicant arguments, the Applicant has a different reason and motivation for combining the references, which clearly perplex the examiner. It is clear that components of both references are interchangeable without placing the patient in a highly unsafe environment. The examiner is clearly substituting components, whereas, it appears that the applicant is substituting and/or modifying the entire system (page 14).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin C. Sirmons whose telephone number is 571-272-4965. The examiner can normally be reached on Monday-Friday 6:30-4:00 ALT FRI.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin C. Sirmons Primary Examiner Art Unit 3763

2/4/05 Muri C. hermon